

CLAIMS

1 ~~Sub A2~~ 1. A wellbore completion tool assembly, comprising:
2 a perforated body made of an expandable material;
3 a filter assembly mounted over said perforated body so as to
4 cover the perforations in said body;
5 a tool acting on said body to expand it and said filter mounted
6 around it to allow said filter to move toward the surface defining the wellbore.

1 ~~Sub C2~~ 2. The assembly of claim 1, further comprising:
2 a protective cover for said filter assembly which is removable
3 downhole.

1 ~~2.3~~ 3. The assembly of claim 1, wherein:
2 said expandable material is corrugated to facilitate insertion into
3 the wellbore, whereupon said tool expands said corrugations to move said
4 filter toward the surface defining the wellbore.

1 ~~3.4~~ 4. The assembly of claim ~~3~~ 2, wherein:
2 said body assumes a rounded shape after expansion by said tool.

1 ~~Sub A3~~ 5. The assembly of claim 1, further comprising:
2 a reinforcement between said body and said filter assembly to
3 support said filter assembly in the area of said body perforations.

1 6. The assembly of claim 1, wherein:
2 said perforated body comprises a segment of a coiled tubing
3 string.

a 1 ~~8~~ 7. The assembly of claim ~~6~~ 1, wherein:
2 said segment has an open area in the range of up to about 40%.

a 1 ~~9~~ 8. The assembly of claim ~~6~~ 1, wherein:
2 said segment is flexible.

a 1 ~~10~~ 9. The assembly of claim ~~6~~ 1, wherein:
2 said segment is made from a flat member which is rolled into a
3 tube with a sealed longitudinal joint.

a 1 ~~11~~ 10. The assembly of claim ~~6~~ 1, wherein:
2 said segment is made from a flat member and rolled spirally to
3 a desired diameter having its spiral seam sealed.

1 ~~12~~ 11. The assembly of claim ~~3~~ 2, wherein:
2 said perforated body comprises a segment of a coiled tubing
3 string.

1 ~~5~~ 12. The assembly of claim ~~11~~ 4, further comprising:
2 a reinforcement between said body and said filter assembly to
3 support said filter assembly in the area of said body perforations.

1 ~~13~~⁵ The assembly of claim ~~12~~⁵, further comprising:
2 a protective cover for said filter assembly which is removable
3 downhole.

1 ~~Sub 14~~^{B3} 14. A method of well completion, comprising:
2 running in a tubular body with perforations and a filter assembly
3 mounted over the perforations on the body;
4 expanding the tubular body downhole.

1 ~~14~~¹³ 15. The method of claim ~~14~~¹³, further comprising:
2 providing a protective covering over the filter assembly for run-in;
3 removing the protective covering downhole.

1 ~~15~~¹³ 16. The method of claim ~~14~~¹³, further comprising:
2 corrugating said tubular body;
3 altering said corrugating into a rounded shape by virtue of said
4 expanding.

1 17. The method of claim ~~14~~¹³, further comprising:
2 engaging the wellbore with the filter assembly due to said ex-
3 panding;
4 using a segment of coiled tubing as said tubular body.

1 ~~16~~¹⁸ The method of claim ~~14~~¹³, further comprising:
2 providing a support between said tubular body and said filter
3 assembly.

1 ~~17~~¹⁸ The method of claim ~~14~~¹³, further comprising:
2 providing an open area on said tubular body of up to about 40%.

1 ~~18~~¹⁹ The method of claim ~~17~~¹⁴¹³, further comprising:
2 corrugating said tubular body;
3 altering said corrugating into a rounded shape by virtue of said
4 expanding.

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